JAZZ 310 – JAZZ 311

JAZZ 310

JAZZ 311

USER`S MANUAL

ELECTRON

Introduction

The Dimmer Pack JAZZ 310 and JAZZ 311 have various applications and therefore they are useful tools for many different installations. They can be permanently wall mounted or tripod / truss mounted. On the front panel there are three sliders used to control each channel and a Master. There are also twelve chasers preset by the factory (Factory Chasers) with the capability of controlling the Dimmer Level, the speed (Rate) and the Fade Time. Each pack has two 9-pin D-sub connectors. The first connector (IN) is connected to the E1115 type ELECTRON control and the second one (THROUGH) is connected to a similar device. On the front panel there is also a selector switch used to select whether the unit will be controlled by channels 1-2-3 or 4-5-6. The dimmers incorporate a digital DMX 512 input and the start address can be selected from the corresponding buttons located on the front panel.

For safe and correct operation, please read the instruction manual very carefully before using the dimmer.

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Installation

The construction of JAZZ 310 and JAZZ 311 gives the advantage to the user to install them easily at any place. More specifically, on the rear side of the pack there are some accessories which can help us to install the dimmers on the wall, on a truss or horizontally as a console so as the user to control easily the built-in control of the dimmer.

Wall mounting

On the upper and lower rear side of the dimmer there are two screwed accessories which are used to hang or secure permanently the dimmerpack on a wall or on any other non flammable surface.

- Unscrew the upper or both accessories and screw them again in the nuts so that they excel from the dimmerpack.
- Install on the wall the appropriate nail or screw to hang the dimmerpack or screw the dimmerpack directly on the wall when permanent installation is required.

The distance where the nails or the screws should be installed is: 60 mm horizontally and 330 mm vertically.

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Stand or truss mounting

In the storage compartment of the dimmer there is another accessory which is mounted (with two wing nuts) and with which the dimmerpack can be secured on a pipe of a stand or a truss of external diameter from 15 mm to 50 mm.

- Remove the accessory from the dimmerpack by unscrewing the two wing nuts which withhold it.
- Place the rear side of the dimmerpack on the pipe of the stand or truss as high as you wish, making sure that the pipe touches the triangles on the rear side of the dimmerpack.
- By holding the dimmerpack on the selected position, screw the truss accessory (that you ave previously removed from the storage compartment) with the wing nuts on the equivalent screw nuts as shown in the left picture. The pipe is now placed between the dimmerpack and this special accessory. In case that the pipe diameter is small, turn over the truss accessory and screw it in the wing nuts.

Desktop use

In case you want to make desktop use of the dimmerpack so as to have easy and quick access to the built-in controller, remove the four feet from the storage compartment and place them on the four corners of the dimmerpack.

Notice that the dimmerpack is provided for desktop use.

CAUTION! In case a screw is lost, do not ever use a screw longer than the ones supplied with the unit.

Electrical connection

The electrical connection should be performed by an experienced and qualified person.

- The power supply to which the dimmerpack is connected should incorporate mains switch and fuse.
- The operating voltage and the maximum power consumption (with max. load) of the dimmerpacks are the following:

  DIMMERPACK JAZZ 310 : 230V~ / 50 Hz / 15 A

  DIMMERPACK JAZZ 311 : 230V~ / 50 Hz / 30 A
- Disconnect temporarily the power supply before connecting the dimmerpack.
- The dimmerpack is regularly supplied with a 1.5m cable. Longer cable as well as a CEE-17 plug is available on request. The connections are performed in the following way:

JAZZ 310 with power supply cable of 3 wires x 2.5mm2.

JAZZ 311 with power supply cable of 3 wires x6mm2**.**

Connecting colours : Yellow-Green = Ground (PE)

Blue = Neutral (N)

Brown = Live (L)

JAZZ 310 with power supply cable 3 x 2.5mm2 and **CEE-17 / 3 x 16A** plugs.

JAZZ 311 with power supply cable 3 x 6mm2 and **CEE-17 / 3 x 32A** plugs.

In case that the dimmer is supplied with CEE-17 plugs, the connection should be performed as shown in the scheme bellow.

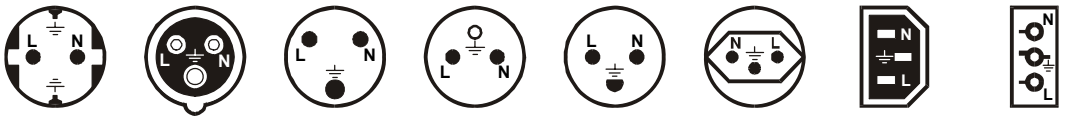
PE = Ground

N = Neutral

L = Live

Outlet sockets

Dimmerpacks JAZZ 310 and JAZZ 311 are available in eight different kinds of outlet sockets, as presented in the diagram below:



Schuko CEE-17 UK GB15A French Danish Swiss IEC Wieland ST18/3

The upper diagram presents the connections of Live, Neutral, Ground for each socket. Models IEC and Wieland GST18 are supplied with two outlet sockets per channel. The rest models are supplied with one outlet socket per channel.

Load connection and load types

Each load should be connected independently to the dimmerpack. You should never connect a common neutral or ground to all loads.

The load types that can be connected are :

- Resistive and inductive loads.
- Incandescent lamps.
- Transformer feeding low voltage lamps.

The loads power per channel is the following:

JAZZ 310 :

Min. load per channel	: **46 W (0.2 A @ 230V~)**
Max. load per channel	: **2300 W (10 A @ 230V~)**
Total max. load per dimmerpack	: **3100 W (13.5 A @ 230V~)**

CAUTION : The dimmerpack JAZZ 310 is supplied with a current limiter which is activated to maintain the maximum current at 13,4A in case of overloading.

JAZZ 311 :

Min load per channel	: **46 W (0.2 A @ 230V~)**
Max. Load per channel	: **2300 W (10 A @ 230V~)**
Total max. load per dimmerpack	: **6900 W (30 A @ 230V~)**

The dimmerpack JAZZ 311 is not supplied with a current limiter.

Each channel is protected with a 10A fuse against short circuit or overloading.

CAUTION : For output protection you should always use fusers of 10A/250V~ time lag 5x20 mm and high breaking capacity.

After installation and Power Supply Connection:

- Make sure that the dimmer is installed and connected properly.
- Turn on the power.
- ELECTRON S.A. is not responsible for any accident or damage caused by incorrect installation or improper use of the equipment.
- In case that you have any doubt about the wiring connections or the operating instructions of this device, please contact your supplier or a qualified person.
- This is a Class-I dimmer and should be grounded (each wire).
- Do not use wet clothes to clean the dimmer during operation.
- To avoid danger, do not put flammable material near the dimmer.

- Do not use water to clean the dimmer.
- To avoid danger, do not put flammable material near the dimmer.
- Do not use water to clean the dimmer.

Dimmer adjustment

The dimmer adjustments of JAZZ 310 and JAZZ 311 can be accomplished with analogue inputs 0 - +10V for each channel or with digital serial signal DMX-512 or with the built-in sliders placed on the front panel.

Analogue control

In the lower part of the unit there is one male and one female D-sub 9 pin plug through which the dimmer is adjusted by a control desk of analogue output 0 - +10VDC.

Caution : In the U.K. GB15A plug model, there are two female DIN Locking 8 pin sockets.

The D-sub 9 pin male plug is used for the input of analogue information and the female one for the output of the same analogue information to the next dimmerpack connected. The dimmerpack accepts six analogue inputs from which the user can select the first three inputs (1-3) or the last three inputs (4-6) to adjust the three channels of the dimmerpack. The selection is performed through the slider switch placed on the front panel of the dimmerpack. Two leds placed over the slider switch indicate the channels that are selected.

The dimmerpack provides a voltage of 20VDC that is used to supply small control desks, such as the ELECTRON E1115-6M control desk.

The pin connection is the following:

D-sub 9 pin :

Pin 1 : Analogue input 1
Pin 2 : Analogue input 2
Pin 3 : Analogue input 3
Pin 4 : Analogue input 4
Pin 5 : Analogue input 5
Pin 6 : Analogue input 6
Pin 7 : not connected
Pin 8 : +15 VDC (max 50 mA)
Pin 9 : Common (0 V)

DIN Locking 8 pin :

Pin 1 : Analogue input 1
Pin 2 : Analogue input 2
Pin 3 : Analogue input 3
Pin 4 : Analogue input 4
Pin 5 : Analogue input 5
Pin 6 : Analogue input 6
Pin 7 : +15 VDC (max 50 mA)
Pin 8 : Common (0 V)

Digital Control

At the lower side of the unit there is one male and need male 5pin XLR connector, used to control the dimmer from a digital DMX-512 control desk.

The male connector is used for the input of the digital signal whereas the female connector is used to supply the next unit (if there is one).

The connection of the 5pin XLR connectors is performed in the following way :

	Male connector XLR	Female connector XLR
Pin 1 :	common (0V)	common (0V)
Pin 2 :	data -	data -
Pin 3 :	data +	data +
Pin 4 :	not connected	not connected
Pin 5 :	not connected	not connected

Besides the connection of the serial signal, you should also set the start address from which the dimmerpack receives the digital input.

On the front panel of the dimmerpack there is a three digit display which indicates the number of the start address, as well as three buttons that are used to select a new start address.

- Press the button < DOWN > to reduce or the button < UP > to increase the number of the start address.

Notice that the display is flashing rapidly.

- Within 15 sec. After pressing the buttons < DOWN > or < UP>, press the button < ENTER > to save the new start address.

Caution: If you do not pres the button <ENTER> within 15sec. the display will stop flashing and the predetermined start address will be maintained.

Example :

For channel selection 1-3, set the start address “001”.
For channel selection 23-25, set the start address “023”.
For channel selection 238-240, set the start address “238”.
The display should always indicate the number of the first channel from the three channels selected.

The led indicator “DMX OK”, on the front panel illuminates the condition of the digital serial connection. When the “DMX OK” led is turned on, the signal connection is correct. When it is turned OFF there is serial error or bad serial transmission.

CAUTION : The dimmerpack has the capability of retaining the last DMX-512 data in case of failure of serial connection (HOLD Function).

Stand alone operation

The dimmer adjustment can be accomplished by the built-in controller which includes 3 sliders and a master. This gives the capability of a stand alone operation without the necessity of an external control desk.

The dimmerpacks JAZZ 310 and JAZZ 311 can be controlled by all the above ways simultaneously.

Chasers

The dimmerpack JAZZ 310 and JAZZ 311 are supplied with 12 factory set chasers.

The user can activate or deactivate a chaser by pressing one button. Also, the user can select the speed rate , the dimmer level and the fade time from the keys on the front panel.

To activate a chaser:

- Press the button < ENTER-CHASER >. The screen now shows the indication “**C.01**” that means that the chaser 1 has been activated.

To select another chaser:

- Press the button < DOWN > to reduce or the button < UP > to increase the number of the chaser. The number of the active chaser, appears now on the screen.

To set another speed rate for the chaser:

- Keep pressing the button < ENTER-CHASER > for approx. 1sec. The screen now shows the indication “**r.10**” that means that the current rate of the chaser is 10.
- Press the button < DOWN > to reduce or the button < UP > to increase the speed rate.

To set the dimmer level of the chaser:

- Keep pressing the button < ENTER-CHASER > for approx. 1sec. The screen now shows the indication “**d.FL**” that means that the dimmer level of the chaser is at FULL.
- Press the button < DOWN > or the button < UP > to increase or decrease the dimmer level.

To set another Fade time of the chaser:

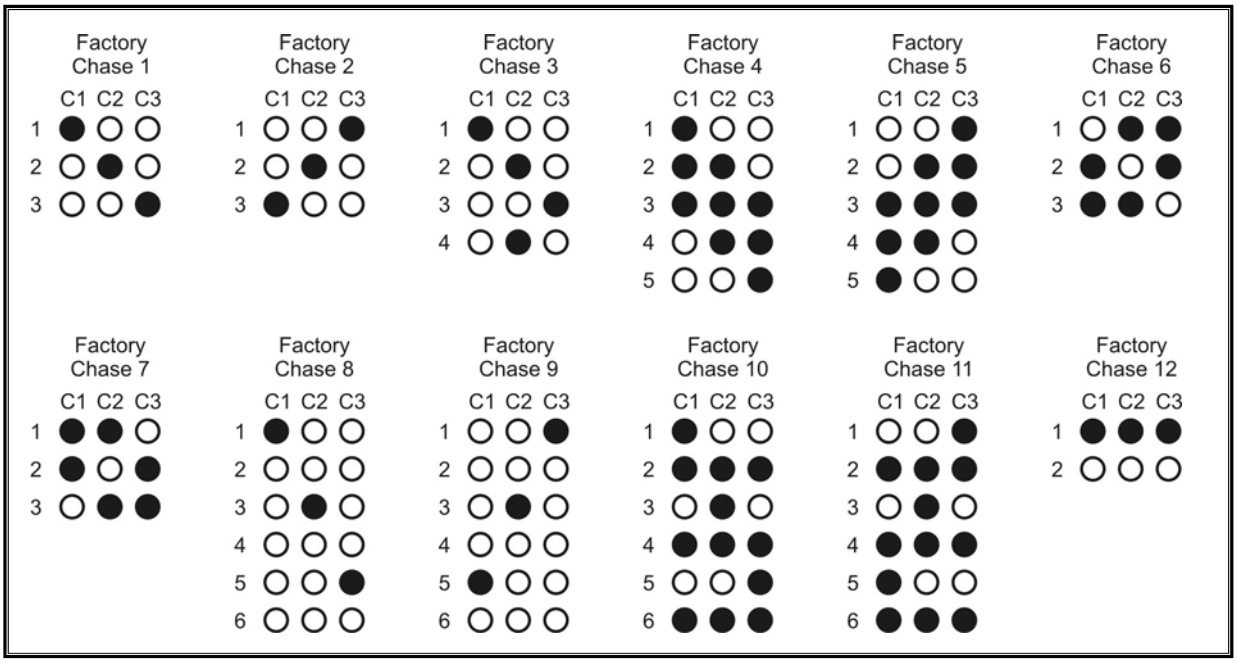
- Keep pressing the button < ENTER-CHASER > for approx. 1sec. The screen now shows the indication "**F.00**" which means that the fade time is at 0.
- Press the button < DOWN > or the button < UP > to increase or decrease the fade time. The number that it shows in the screen is the 1/10 of the second. If for example, you see the indication "**F.17**" then the fade time is 1,7sec.

To deactivate a chaser:

- Press the button < ENTER-CHASER >. The chaser is deactivated and the screen shows again the start address of the DMX.

Notes. On each deactivate of the chaser, the number, the speed rate, the dimmer level and the fade time, are stored in the dimmer memory, so as in the next activation to operate the same chaser with the same adjustments.
These adjustments are remaining in the dimmer`s memory even if the supply voltage of the dimmer will be interrupted.
The chaser can operate in parallel with the digital input and the built-in controller. You should know that when the chaser is in operation, there is no possibility of changing the DMX start address.
When the dimmer supply voltage is interrupted while the chaser is in operation, then on the next Power ON the chaser will be activated automatically.

Table of the 12 Factory Chasers



SPECIFICATIONS	JAZZ 310	JAZZ 311
Channels	3	3
Min. Load per channel	46 W (0.2 A @ 230V~)	46 W (0.2 A @ 230V~)
Max. Load per channel	2300 W (10 A @ 230V~)	2300 W (10 A @ 230V~)
Max. Total load	3100 W (13.5 A @ 230V~)	6900 W (30 A @ 230V~)
Load type	Incandescent lamps, resistive and inductive loads Iron core Transformer for low voltage Incandescent lamps	Incandescent lamps, resistive and inductive loads Iron core Transformer for low voltage Incandescent lamps
Output fuse	10 A /250V~ (5 x 20 mm) Time-lag High Breaking Capacity	10 A /250V~ (5 x 20 mm) Time-lag High Breaking Capacity
RFI filter	50 μs	50 μs
Output per channels (8 models)	1 x Schuko or 1 x CEE-17/3x16A or 1 x UK GB15A or 1 x French or 1 x Danish or 1 x Swiss or 2 x IEC or 2 x Wieland GST18	1 x Schuko ή 1 x CEE-17/3x16A ή 1 x UK GB15A ή 1 x French ή 1 x Danish ή 1 x Swiss ή 2 x IEC ή 2 x Wieland GST18
Analogue input	6 channels 0 / +10VDC with capability of selecting first or second group of channels from the slider switch.	6 channels 0 / +10VDC with capability of selecting first or second group of channels from the slider switch.
Analogue input plgs and sockets (All models except UK)	2 x 9 pin D-sub (Male :in / Female:out)	2 x 9 pin D-sub (Male: in / Female: out)
Analogue Input sockets (UK GB15A)	2 x DIN Locking 8 pin (1 for input / 1 for output)	2 x DIN Locking 8 pin (1 for input / 1 for output)
Low voltage output	15VDC / 50 mA	15VDC / 50 mA
Built-in controller	3 channels + Master	3 channels + Master
Digital input	DMX-512 / 1990	DMX-512 / 1990
Plugs and sockets for digital signal	Male 5 pin XLR : input Female 5 pin XLR : output	Male 5 pin XLR : input Female 5 pin XLR : output
Installation	Wall mounting Desktop Stand or truss The necessary accessories for the above installations are supplied as standard.	Wall mounting Desktop Stand or truss The necessary accessories for the above installations are supplied as standard.
Operation voltage	230V~ / 50 Hz	230V~ / 50 Hz
Min. Load consumption	10 W (with no load)	10 W (with no load)
Max. Load consumption	3115 W (with max. load)	6910 W (with max. load)
Main fuse	Circuit breaker C16 A	Circuit breaker C32 A
Power supply	1.5m power supply cable (3 wires X2,5mm²)	1.5m power supply cable (3 wires X2,5mm²)
Conformity to standards	EN 60669-1 / 1995 EN 61000-3-2 / 1995 EN 61000-4-2 / 1995 EN 55014 / 1993	EN 60669-1 / 1995 EN 61000-3-2 / 1995 EN 61000-4-2 / 1995 EN 55014 / 1993

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